Allotment Assessment and Evaluation Report for New Mexico Standards and Guidelines for Public Land Health Canon de la Mina (#888) – October 14, 2010

Permittee/Lessee		<u> </u>	Authorization Numb 3001564	<u>er</u>
Livestock Use	Preference AUMs	Allotment 00888	Active 12	Suspended 0
	Period of Use /	Allotment	Number/Kind	Season of Use
	Kind of livestock	Canon de la Mina	1 Cattle	$\frac{36300101086}{03/01 - 02/28}$
	Percent Public	Canon de la ivilla	1 Caute	03/01 - 02/20
	Land	AUMs are	authorized at 100%	public land
Allotment Profile	Physical	Allotment 888 is loca	ted approximately 4	25 miles east of
	Description	Allotment 888 is located approximately 4.25 mile Villanueva in San Miguel county, New Mexico. Mina allotment lies 0.3 miles west of the Pecos R allotment is made up of low hills with pinyon-jun understory of perennial warm season grasses. The ranges from 5700 to 5800 feet. Three soil types are identified within the BLM pa within the parcels are: LR - Laporte-Rock outcrop complex, steep. Thes of channery loams, with rooting depths between 1 inches. Parent materials of alluvium and colluviu dominantly from sandstone and limestone compri Average annual precipitation ranges between 16 a Hazards for erosion are slight to moderate. Veget characterized by pinyon, juniper, blue grama, oak grama, and little bluestem. TR - Tuloso-Rock outcrop-Sombordoro association These soils consist of stony sandy and stony loam depths ranging from 8 to 20 inches. Parent materials about 16 inches. Hazards for erosion are slight to Vegetation is characterized by pinyon, juniper, blue grama, blue grama, blue grama, oak grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is a contracterized by pinyon, juniper, blue grama, oak grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches. Hazards for erosion are slight to the grama is about 16 inches.		Mexico. Canon de la Pecos River. The hyon-juniper and an isses. The elevation BLM parcels. Soils Pep. These soils consist etween 10 to 20 colluvium derived et comprise these soils. The elevation is him, oak, sideoats association, steep. Only loams with rooting at materials are ge annual precipitation are slight to moderate.
		ricegrass.		1 7
		precipitation is about to moderate. Vegetati	onsist of stony sand anging from 8 to 20 y derived from sand 16 inches. Hazards on is characterized l	y and stony loams inches. Parent stone. Average annual for erosion are slight
	Land Status	BLM	State	<u>Private</u>
	Acreage	65	0	0

	Management Objectives	The allotment is under a 'Custodial' ('C') management category. 'C' category allotments have evidence of a "not apparent" to "upward" long term trend, have no significant resource conflicts and have a low potential for improvement in vegetative production.	
	Key Forage Species	little bluestem, pinyon ricegrass, sideoats grama, blue grama, hairy grama	
	Grazing System	Year round use	
Current Conditions / Management	Actual Use	Actual use reports were not submitted. Use was determined by billed AUMs.	
		<u>AUMs</u> Year	
		12 2010	
		12 2009 12 2008	
		12 2008	
		12 2006	
		12 2005	
		12 2004	
		12 2003	
		12 2002	
		12 2001	
		12 2000	
	Utilization	Due to the lack of staff, utilization studies have not been	
		conducted. During the assessment visit it was determined that	
	G11	the allotment was receiving slight to moderate utilization.	
	Climate	The past water year (Oct. 1, 2009 – Sept. 30, 2010) the average temperature has been slightly below average (0 to 1 degrees Fahrenheit below average) and precipitation below average (0 to 3 inches below average). The winter was slightly wetter (0 to 1.5 inches above normal) and was colder (3 to 4 degrees Fahrenheit below average). The spring was drier (0 to 0.75 inches below normal) and was colder (0 to 1 degrees Fahrenheit above average). This should provide below average plant growth for cool season plants. The summer precipitation was below average (0 to 1.5 below normal) and slightly warmer (1 to 2 above normal) which should provide below normal growth for warm season plants. Global climate change resulting from increasing atmospheric CO ₂ levels may accelerate rates of plant extinction and result in shifts in ecosystem structure (species diversity) and function. We anticipate that our monitoring efforts will track vegetation shifts allowing for management modifications to address local range impacts resulting from global climate change.	
	Trend	In 2010 monitoring transects and photo points were placed in the allotment to establish vegetation trend. The full findings a kept in the allotment file at the Taos Field Office, but are summarized below.	
		Plot #1 2010	
		Plot #1 2010	

			Ground Cover	(%)	
			Bare Ground	58	
			criptogams	0	
			gravel	14	
			rock	0	
			litter	10	
		_	MUTO	4	
			ВОНІ	5	
				1	
			PLJA	1	
			JUMO BOGR	7	
		 	Species	/	
			Composition	(%)	
			ВОНІ	20	
			MUTO	24	
			PLJA	11	
			BOGR	35	
			BOER	2	
		_	JUMO	4	
			CHMA	2	
			BOCU	2	
		_			I
	Riparian	There is no riparia	an area within the all	otment.	
	Wildlife	Seasonal home ranges in the allotment include those for deer,			
		elk, bear, bobcat, fox, coyote, small mammals and reptiles, bats,			
		raptors, turkey vu	lture, songbirds, and	a variety	of insects.
		G II.	1 1 .	'1 11' C	1 (1
		Some dietary overlap occurs between wildlife and cattle;			
		however, best management practices would ensure that forage production within this area can support both wildlife and			
		livestock on a sus		t both wh	diffe and
	Threatened and		hat there are no feder	ally listed	threatened or
	Endangered		es likely to be found	-	
	Species		nated critical habitat	for any sp	ecies listed by
		the USFWS withi	in the allotment.		
		Constal (-1414 - 191 1 -4	1	41
			cies that are likely to		
Findings / Rationale			ally) include bald ea llth Evaluation Matri		
for the New Mexico			. This evaluation ma		1
Standards for Public			"Interpreting Indica		
Land Health			al matrix forms are a		_
			elow is a summation		
			n site evaluation. W		
			are three different ca	-	
		_	clude; Soil and Site S	•	
		Function and Bio	tic Integrity. The per	cent of inc	dicator score

	was created by multiplying an assigned value for departure from site descriptions/reference areas by the number of indicators at the level. Departure scores are categorized as: none to slight = 5, slight to moderate = 4, moderate = 3, moderate to extreme = 2 and extreme = 1. For example, if all indicators under Soil/Site Stability were rated none to slight (best condition), the equation would be $5(\text{score})*10 = 100\%$ similarity, or what is expected based on an Ecological Site Description.
	Soil and Site Stability Two indicators were deemed None to Slight, seven were deemed Slight to Moderate, one was deemed Moderate, zero were deemed Moderate to Extreme, and zero were deemed Extreme to Total. Rating: 82%
	Hydrologic Function One indicator was deemed None to Slight, seven were deemed Slight to Moderate, two were deemed Moderate, zero were deemed Moderate to Extreme, and zero were deemed Extreme to Total. Rating: 78%
	Biotic Integrity Four indicators were deemed None to Slight, four were deemed Slight to Moderate, one was deemed Moderate, zero were deemed Moderate to Extreme, and zero were deemed Extreme to Total. Rating: 87%
Upland Standard	Overall Rating: 82% Upland ecological sites are in productive and sustainable condition within the capability of the site. Upland soils are stabilized and exhibit infiltration and permeability rates that are appropriate for the soil type, climate, and landform. The kind, amount and/or pattern of vegetation provides protection on a given site to minimize erosion and assist in meeting Sate and Tribal water quality standards.
	This allotment is meeting the Upland Standard based on the above evaluation and information. Rills and pedestals are present, but not active. Water-flow patterns nearly match what is expected. Soil surface is somewhat resistant to erosion, but some soil loss has occurred. Bare ground is higher than expected for the site (58% of ground cover) and litter is moving with surface water flow from intense rainstorms; however, soil loss appears minimal.
Biotic Communities Standard	Ecological processes such as hydrologic cycle, nutrient cycle, and energy flow support productive and diverse native biotic communities, including special status, threatened, and endangered species appropriate to site and species.

	Riparian Standard	This allotment is meeting the Biotic Communities Standard based on the above evaluation and information. Generally, vegetation and wildlife species are as expected for the site. Juniper trees are encroaching into open areas in the allotment. The study site has a good mix of grass species with grasses occupying 17% of ground cover. Litter amount is lower than expected. Although ground cover is high, annual production is less than other sites with similar characteristics. Riparian areas are in a productive, properly functioning and sustainable condition, within the capability of that site. The Riparian Standard does not apply to this allotment. No riparian areas are present.
Conclusion		The New Mexico Standards for public land health are being met; therefore no Determination Document is warranted. Continued monitoring will help establish future trend. It is recommended that the grazing lease be renewed for the next ten years without any changes.

Consultation and Coordination

This Assessment and Evaluation Report has been sent or given to the affected permitee(s) / lessee(s), the interested publics and the following interdisciplinary team members for input and review:

Merril Dicks – Archeologist
Scott Draney – Department of Game and Fish
Greg Gustina – Fish Biologist
Pam Herrera-Olivas – Wildlife Biologist
Tami Torres – Outdoor Recreation Planner
Jacob Young – Rangeland Management Specialist
Paul Williams – Archeologist
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This document was prepared by: Derek Trauntvein – Rangeland Management Specialist

